

WE CLAIM:

1. A method to hyposensitize a mammal, said method comprising:
 - (a) obtaining an immunogenic composition comprising multimeric profilin; and
 - 5 (b) administering an effective dose of the composition successively in incremental doses until the mammal is hyposensitized.
2. The method of claim 1, wherein multimeric profilin is selected from a group consisting of naturally occurring, synthetic, or recombinantly made profilin
3. The method of claim 2, wherein the profilin occurs as complexes of
10 homomultimers.
4. The method of claim 1, wherein the multimeric profilin comprises synthetic peptide fragments of profilin.
5. The method of claim 3, wherein the multimeric profilin comprises synthetic peptide fragments that have novel sequences that arise from profilin
15 multimerization
6. The method of claim 1, wherein the multimeric profilin comprises peptide fragments made by recombinant DNA technology.
7. The method of claim 1, wherein the multimeric profilin comprises monomers selected from the group consisting of celery (Api g4, GENE BANK
20 ACCESSION NO. QPXF37), peanut (Ara h5, GENE BANK ACCESSION NO. Q9SQ19), birch tree pollen (Bet v2, GENE BANK ACCESSION NO. P25816), Bermuda grass (Cyn d12, GENE BANK ACCESSION NO. O04725), soybean (Gly m3, GENE BANK ACCESSION NO. O65809, O65810), sunflower (Hel A2, GENE BANK ACCESSION NO. O81980), latex (Hev b8, GENE BANK ACCESSION NO.
25 CAB51914, O65812, Q9STB6, Q9M7N0, Q9M7M9, Q9M7M8, Q9LE18), Mercurialis annua (Mer a1, GENE BANK ACCESSION NO. O49894), olive tree pollen (Ole e2, GENE BANK ACCESSION NO. P19963, O024170m O24171), timothy grass (Phl p11, GENE BANK ACCESSION NO. P35079, O24650, O24282), sweet cherry (Pru av4, GENE BANK ACCESSION NO. Q9XF39), pear (Pyr c4,
30 Q9XF27), corn pollen (Zea Pro I, GENE BANK ACCESSION NO. B35081; Zea Pro

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(a)

(b)

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(a)

(b)

16. A composition wherein the multimeric profilin is selected from the group of monomeric profilin consisting of celery (Api g4, GENE BANK ACCESSION NO. Q9XF37), peanut (Ara h5, GENE BANK ACCESSION NO. Q9SQ19), birch tree pollen (Bet v2, GENE BANK ACCESSION NO. P25816),
- 5 Bermuda grass (Cyn d12, GENE BANK ACCESSION NO. O04725), soybean (Gly m3, GENE BANK ACCESSION NO. O65809, O65810), sunflower (Hel A2, GENE BANK ACCESSION NO. O81982), latex (Hev b8, GENE BANK ACCESSION NO. CAB51914, O65812, Q9STB6, Q9M7N0, Q9M7M9, Q9M7M8, Q9LE18), Mercurialis annua (Mer a1, GENE BANK ACCESSION NO. O49894), olive tree
- 10 pollen (Ole e2, GENE BANK ACCESSION NO. P19963, O024170, O24171), timothy grass (Phl p11, GENE BANK ACCESSION NO. P35079, O24650, O24282), sweet cherry (Pru av4, GENE BANK ACCESSION NO. Q9XF39), pear (Pyr c4, Q9XF27), corn (Zm PROI, GENE BANK ACCESSION NO. P35081; Zm Pro II, GENE BANK ACCESSION NO. P35082; ZmPro III, GENE BANK ACCESSION
- 15 NO. P35083; ZmProIV, GENE BANK ACCESSION NO. O22655; ZmProV, GENE BANK ACCESSION NO. Q9FR39), human (profilin I, GENE BANK ACCESSION NO. P07737; Profilin II isoform a, GENE BANK ACCESSION NO. NP_444252; and Profilin II isoform b, GENE BANK ACCESSION NO. NP_002619, or composition thereof.
- 20 17. A diagnostic test for allergies, said test comprising:
- (a) obtaining a pharmaceutical composition of multimeric profilin or functionally equivalent fragments thereof;
- (b) administering the composition to a subject; and
- (c) determining a reaction from which allergenicity is inferred.
- 25 18. Use of multimeric profilin or a functional equivalent to hyposensitize a mammal.
19. An antibody directed against a synthetic peptide of claim 10.
20. An antibody directed against the multimeric profilin of claim 12.
21. An antibody against the multimeric profilin of claim 15.